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CIA/RR GB 64-16 Hay 1964

CLIMATIC AND SOIL DATA OF KUYBYRREV

I. Climate

A. Dunmary

The annual temperature-precipitation regime of Knybyshev is roughly analogous to that of the northern Great Plains region of the United States in northeastern Montana. Rainfall is more evenly distributed throughout the year in Knybyshev, however, and the climate there probably can be considered more favorable for construction.

Winters are characterized by a long sustained cold period in which the average daily temperature remains below 23°F from mid-November to mid-Nerch (see Table 1) and is as low as 7.5°F in late January. Precipitation is evenly distributed throughout the year. September and October receive the heaviest amounts (1.7 inches each), which is about two and one-half times greater than that of Pebruary, which receives the lightest amount (0.7 inches) (see Table 2). From April through October, precipitation in quantities greater than 0.2 inches occurs on the average of two to three times a month. Summer rainfall is frequently in the form of showers. Showfall occurs from October through April with a maximum frequency of 7 to 11 days per month in December through February. Personent show cover generally begins in late November and lasts until mid-April, with the average maximum depths (13.4 inches) usually occurring in late February or early Narch.

Soils are frozen to a depth of at least 9.5 inches between late November and early April, with average maximum depths of 32.2 inches occurring in February and Merch. Occasionally the sails freeze to a depth of 60 inches. For a period of about 3 weeks in early April, the ground is usually wet.

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GROUP 1
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declassification

Teble 1 Temperature

		Legar une	Februarie 1t
	Marage	Average Daily Maximum	Average Daily Minimum
Jenuary February Merch April May June July August September October Movember	7.9 8.6 19.8 39.6 57.0 65.5 69.1 65.8 54.1 50.1	11 14 27 52 68 76 85 79 68 51	2 0 10 25 55 56 56 55
Decomber-	12.9	16	21 5

Absolute minimum temperature: -05.4

Absolute maximum temperature: 98,6

Average daily temperature falls below:

14 - 12 December to 6 Merch (84 days)
23 - 16 Revember to 22 Merch (124 days)

Average daily temperature exceeds:

32 - 6 April to 1 Bovember (209 days)

11 - 18 April to 13 October (176 days)
50 - 29 April to 23 September (117 days)
59 - 21 May to 6 September (108 days)

65 -- 2 July to 5 August (33 days)

Table 2 Precipitation

	Average Precipitation (inches)	Average Number of Days with Thunderstorms	of Days with Spowfell	
Jennary 0.8		0.2	11	
Petersery	0.7	0.2	8	
March	0.8	0.0	Ä	
April	1.0	9.5	8	
Hery	1.3	0,0	0	
June	1,6	0.3	O	
Jaly	1.5	0.0	0	
August	1.6	0.0	0	
September	1.7	0.0	0	
October	1.7	0.2	less than 0.5	
Sevenber	1, 5	0.0	5	
December	1.0	0.0	7	

Average annual precipitation: 15 inches

Average master of days per year with snow cover: 1/1

Average date of first enow cover: 5 November

Average date of disappearance of snow cover: 15 April

Average maximum depth of snow cover (based on 10-day period of greatest depth): 15.4 inches

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B. Reliability of late

Data on average daily maximum and minimum temperatures and on everage number of days with thunderstorms and smowfall are taken from a 1948 USAF publication and are based upon limited pre-World War II Soviet data covering the period 1972-76. All other data are from recent Soviet sources that are based on long periods of observation made by the Hydrometeorological Service of the UESA and are therefore more reliable.

2. Boils and Landforms

The eastern part of Knyhyshav is situated on a terrace elightly shows the adjacent floodplain of the Somers River. The soils are leached chernozens, consisting of medium-heavy clay and silt. They are underlain by predominantly soft bedrock formed of sand, silt, clay, and gravel, with occasional outcrops of bedded limestone. Information on the depth of soil and bedrock in the specific even under consideration is not readily evallable.

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